WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	10/04/14	
Applicant:		Enbridge									County:	Red Lake	
Investigators	3 :	NTT/BEH				Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	159A			NWI Classification:									
Landform:	Rise Local Relief: VL									Sample Point	u-151n42w10-i2		
Slope (%):	3 - 7%		Latitude: 4	17 9057		Longitude:		732	Datum:		1		
		nditions on the site							⊡Yes	□No	Section:		
Are Vegetati		☐ or Hydrology			isturbed?	(, 6,4)		normal circun			Township:		
Are Vegetati		or Hydrology					7410	✓ Yes	□No	Cociit:		Dir:	
			Litturally	y proble	emanc?			<u> </u>	□I40		Range:	DII.	
SUMMARY C													
Hydrophytic '			_	No						Is Present?			
Wetland Hyd				No							nt Within A W		
Remarks:		point is located in	an open r	meado	w area. Th	is upland _ا	point run	s parallel to a	roadside dit	tch.The don	ninant plants	are smooth brome and Ke	entucky
	blue grass.												
HYDROLOG	Υ												
Wetland Hy	drology Ind	icators (Check all	I that annly	v: Minir	mum of on	e nrimary	or two se	econdary requi	red).				
Primary		icators (Crieck all	i tilat appi	y, iviii iii	illulli oi oii	e primary	OI TWO SE	econdary requi	ieu).	Secondary			
A1 - Surface Water					П	B11 - Salt (Crust			Secondary: ☐ B6 - Surface Soil Cracks			
I ==	A2 - High Wa					B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturatio					C1 - Hydro		e Odor			 □ B10 - Drainage Patterns □ C3 - Oxidized Rhizospheres on Living Roots (tilled) 		
	B1 - Water M					C2 - Dry Se							
	B2 - Sedimen							pheres on Living	Roots (not till		C8 - Crayfish I		
	B3 - Drift Dep					C4 - Preser C7 - Thin M					D2 - Geomorp	n Visible on Aerial Imagery	
	B4 - Algal Ma B5 - Iron Dep					Other (Expl		ice			D5 - Geomorp		
1 5		n Visible on Aerial Im	nagery		_	Otrici (Expi	iairi)					aved Hummocks (LRR F)	
I =	B9 - Water-S									_		,	
Field Obser	vations:												
Surface Wat	er Present?	Yes 🔲	П	Depth:		(in.)							
Water Table		Yes 🗆							Wetland F	Hydrology	Present?	N	
Saturation P		Yes 🗆		Depth:		(in.)							
Cataration	resent:	163		Jeptii		(111.)	1						
		stream gauge, moni			photos, pre	evious insp	ections),	if available:					
Describe Rec Remarks:		stream gauge, moni hydrology indicato			photos, pre	evious insp	ections),	if available:					
Remarks:					photos, pre	evious insp	ections),	if available:					
Remarks:	No wetland	hydrology indicato	ors presen	nt.			·						
Remarks: SOILS Profile Descri	No wetland	hydrology indicato	ors presen	nt. docume	ent the indi	cator or co	onfirm the	e absence of ir					
Remarks: SOILS Profile Descri	No wetland	hydrology indicato	ors presen	nt. docume	ent the indi	cator or co	onfirm the	e absence of ir					
Remarks: SOILS Profile Descri	No wetland	hydrology indicato be to the depth ne etion, RM=Reduced Ma	ors presen	nt. docume	ent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Matr		1			
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix	ors presen	nt. docume overed/C	ent the indi	cator or co Grains; Locat	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Matr	ix)	<u> </u>			
Remarks: SOILS Profile Descri (Type: C=Concei	No wetland	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to d	docume overed/C	ent the indi	cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-19 19-24 NRCS Hydr	No wetland iption (Description, D=Depl Hue_10YR Hue_5Y Hue_2.5Y ric Soil Field A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 4/2 Indicators (ch	peeded to deatrix, CS=Cc	st. docume overed/C % 100 100 100 if indic	Color (I	cator or co Grains; Locat Moist) Moist) Not present	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast	gravel present for Problematie fuck (LRR I, J) t Prairie Redox (c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-19 19-24 NRCS Hydr	No wetland iption (Description (Description) Hue_10YR Hue_5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 4/2 Indicators (ch	peeded to deatrix, CS=Cc	overed/C % 100 100 100 if indic S S F	Color (I	cator or co Grains; Locat Moist) Moist) Hot present	monfirm the stion: PL=Pc Mottle % Line is a strong stro	e absence of ir ore Lining, M=Matr es Type	Location	Indicators: A9 - 1 cm N A16 - Coast S7 - Dark S	for Problemation Muck (LRR I, J) It Prairie Redox (curface (LRR G)	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-19 19-24 NRCS Hydr	No wetland iption (Descritation, D=Depl Hue_10YR Hue_5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 4/2 Indicators (ch	peeded to deatrix, CS=Cc	overed/C % 100 100 100 if indic	Color (I	cator or co Grains; Locat Moist) not present edox Matrix leducky Minera	monfirm the stion: PL=Pc Mottle % Line is a strong stro	e absence of ir ore Lining, M=Matr es Type	Location	Indicators: A9 - 1 cm N A16 - Coast S7 - Dark S	gravel present for Problemation fuck (LRR I, J) t Prairie Redox is urface (LRR G) Plains Depression	c Soils ¹ (LRR F, G, H)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w10-i2
VEGETATION		non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:1(A)
3.					
4.					Total Number of Dominant Species Across All Strata:3(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 5 x 1 = 5
	Total Cover =	0			FACW spp. 0 x 2 = 0
	-		_		FAC spp. 0 x 3 = 0
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 40 x 4 = 160
1.	Salix petiolaris	5	Υ	OBL	UPL spp. 60 x 5 = 300
2.					··· <u></u>
3.					Total 105 (A) 465 (B)
4.					·
5.					Prevalence Index = B/A = 4.429
6.	_				1 16 Validitide 11146A - DIA - 4.423
7.	_				
8.					Lludranhutia Varatatian Indiaetara
					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	5	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	60	Y	UPL	
2.	Poa pratensis	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Cirsium arvense	10	N	FACU	present, unless disturbed or problematic.
4.	Trifolium hybridum	10	N	FACU	Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
_	Total Cover =	100			
	. 3 30701		_		
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.				_	Hydrophytic Vegetation Present? N
5.					Tryurophytio rogotution riccont.
4.					
	Total Cover =	0		_	
Remarks:	Dominant plants within the upland area are s		me and K	entucky bl	IIP GLSS
Acmarks.	Dominant plants within the uplant area are s	טומ ווויטטוו	me and N	CITUONY DI	ao grass.
Additional R	emarks:				